

REMARKS

The Office Action in the above-identified application has been carefully considered and this amendment has been presented to place this application in condition for allowance.

Accordingly, reexamination and reconsideration of this application are respectfully requested.

Claims 1-8 and 10-12 are in the present application. It is submitted that these claims were patentably distinct over the prior art cited by the Examiner, and that these claims were in full compliance with the requirements of 35 U.S.C. § 112. The new claims, as presented herein, are not submitted for the purpose of patentability within the meaning of 35 U.S.C. sections 101, 102, 103 or 112. Rather, these claims are submitted simply for clarification and to round out the scope of protection to which Applicants are entitled. Claim 9 is cancelled.

The drawings were objected to by the Examiner. However, the Office Action does not indicate which drawings require correction, and why? Accordingly, Applicants are unable to address this objection.

Claims 1-6, 8, and 11 were rejected under 35 U.S.C. § 102(e) as being anticipated by Kamiya et al. (U.S. Patent 6,175,772). Claims 9 and 10 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Kamiya in view of Lund et al. (Article entitled "Adaptive LEGO Robots"). Independent claims 1, 11, and 12 have been amended to include the limitations of canceled dependent claim 9. The present invention uses a "behavioral model [that] is a probability automaton prescribed by a state corresponding to a behavior and a transition probability of the state." (Claims 1, 11, and 12) The present invention's "changing means

changes the transition probability in the probability automaton based on the stimulus detected by said stimulus detection means.” (Claim 1, Claims 11 and 12 contain similar limitations) As indicated by the Examiner, “Kamiya does not teach the behavioral model as a probability automaton prescribed by a state corresponding to a behavior and a transition probability of the state.” (Office Action page 6) Rather, the Examiner contends Lund’s behavior set and behavior engine, as taught on page 1021, meet these limitations. Lund’s behavior set is “implemented by a neural network” or “by a few lines of deterministic code.” (Lund, page 1021, second column, lines 9-12) However, Lund’s neural network is an alternative, not an equivalent, to the probability automaton used in the present invention. As shown in Figures 6 and 7, the present probability automaton uses probability equations to determine the transitions between behavioral models; whereas, Lund discloses a behavior set selector which “ranks the behavior sets available” by scores “determined by the distance between the current sensor and the state values and the values stored in the behavior set” (Lund, page 1021, second column, lines 24-28). Hence, Lund’s behavior sets are not “transitioned” based on probability equations as in the present invention, but rather on scored rankings. Accordingly, for at least this reason, Kamiya and Lund fail to meet the present invention’s probability automaton and the rejected claims should now be allowed.

Claim 7 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Kamiya in view of Fujita et al. (U.S. Patent 5,966,690) The Examiner relies on Fujita solely to meet the present invention’s speech recognition dictionary feature. However, like Kamiya, Fujita fails to meet the present invention’s probability automaton limitation for the reasons discussed above. Accordingly, the combination of Kamiya and Lund fails to obviate the present invention.

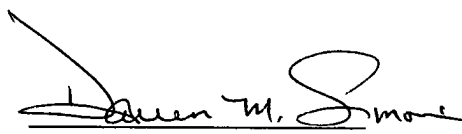
In view of the foregoing amendment and remarks, it is respectfully submitted that the application as now presented is in condition for allowance. Early and favorable reconsideration of the application are respectfully requested.

No additional fees are deemed to be required for the filing of this amendment, but if such are, the Examiner is hereby authorized to charge any insufficient fees or credit any overpayment associated with the above-identified application to Deposit Account No. 50-0320.

If any issues remain, or if the Examiner has any further suggestions, he/she is invited to call the undersigned at the telephone number provided below. The Examiner's consideration of this matter is gratefully acknowledged.

Respectfully submitted,
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